

to a disc lubricant proximate to the trailing edge of the rigid member.

22. The slider of claim 21 wherein the rigid member includes a center rail and the center rail includes a pressure relief trench.

23. The slider of claim 21 wherein the trench is transversely aligned.

24. The slider of claim 21 wherein the trench is opened at opposed ends thereof to form a through channel.

25. The slider of claim 21 wherein the trench is longitudinally aligned.

26. The slider of claim 21 wherein the trench is sloped relative to a plane of the air bearing surface.

27. The slider of claim 21 wherein the air bearing surface includes a plurality of spaced pressure relief trenches.

28. The slider of claim 21 including a center rail.

29. The slider of claim 21 wherein the trench includes a depth dimension sized so that separation of the rigid member and the disc at the trench during contact of the slider with the disc surface is equal to or greater than $2R_e$ to balance capillary pressure and disjoining pressure of a lubricant fluid on the disc surface, where R_e is a radius of a leading edge of a meniscus formed between the disc surface and a capillary surface of the rigid member.

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